#### PATENT COOPERATION TREATY

## **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference								
	FOR FURTHER ACTION Sec Form PCT/IPEA/416							
9631WO/UR/FB								
International application No.	International filing date (day/month/year)	Priority date (day/month/year)						
PCT/SE2004/002002	23-12-2004	31-12-2003						
International Patent Classification (IPC) o	r national classification and IPC							
See Supplemental Box	See Supplemental Box							
Applicant								
ABB AB et al	•							
Authority under Article 35 and in	liminary examination report, established by that same the applicant according to Article	e 36.						
2. This REPORT consists of a total of	of 4 sheets, including this cover	er sheet.						
<ol> <li>This report is also accompanied by</li> </ol>	y ANNEXES, comprising:							
a. (sent to the applicant	and to the learning of B							
	and to the International Bureau) a total of							
and/or sneets	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which s	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes							
beyond the dis	sclosure in the international application as file	xd, as indicated in item 4 of Box No. I and the						
<u></u>								
b (sent to the Internatio	nal Bureau only) a total of (indicate type and							
form only as indicate	, containing a sequence listing d in the Supplemental Box Relating to Sequence	g and/or tables related thereto, in electronic						
Administrative Instruc	ctions).	nce Listing (see Section 802 of the						
4. This report contains indications re	lating to the following items:							
	the report							
Box No. II Priority								
Box No. III Non-esta	ablishment of opinion with regard to novelty,	inventive step and industrial applicability						
<u></u>	unity of invention	. ,						
Box No. V Reasone	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial							
applicability; citations and explanations supporting such statement  Box No. VI Certain documents cited								
Box No. VII Certain of	defects in the international application	·						
Manual Property Control of the Contr	observations on the international application							
Date of submission of the demand	Date of completion	of this report						
31-10-2005	24-03-2006	24-03-2006						
Name and mailing address of the IPEA/SE								
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### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/002002

Supp	lemen	tal	Box
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In case the space in any of the preceding boxes is not sufficient. Continuation of: Cover sheet

International patent classification (IPC)

H02J 3/12 (2006.01)

Form PCT/IPEA/409 (Supplemental Box) (April 2005)

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/002002

Вох	No. 1	Basis of the report	4				
۱.	With r	regard to the language, this report is based on:					
		the international application in the language in which it was filed	1				
	a translation of the international application into which is the language of a translation furnished for the purposes of:						
		international search (Rules 12.3(a) and 23.1(b))	ļ				
		publication of the international application (Rule 12.4(a))	l				
		international preliminary examination (Rules 55.2(a) and/or 55.3(a))					
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):						
		the international application as originally filed/furnished	-				
	لــا	the description:  pages as originally filed/furnished	.				
		pages* received by this Authority on	.				
		pages* received by this Authority on	.				
		the claims:	l				
	لـــا	pagesas originally filed/furnished	ı				
		pages* as amended (together with any statement) under Article	19				
		pages* received by this Authority on					
		pages* received by this Authority on	-				
		the drawings:	,				
ĺ		pages as originally filed/furnished					
		- 11. Ali Anthonia on	_				
		a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.					
3.		The amendments have resulted in the cancellation of:					
		the description, pages					
İ		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (70.2(c)).	been Rule				
		the description, pages					
1	the claims, Nos.						
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
*	lf it	tem 4 applies, some or all of those sheets may be marked "superseded."	<u></u>				

Form PCT/IPEA/409 (Box No. 1) (April 2005)

International application No.

PCT/SE2004/002002

YES

Bo	x No. V	Reasoned stateme citations and expla	nt under Article 3 anations supportin	35(2) with regard to novelty, inventive s ng such statement	step or industrial applicability;
1.	Statement				
	Nove	elty (N)	Claims Claims	<u>2-22, 24-27</u> <u>1, 23</u>	YES NO
	Inver	ntive step (IS)	Claims Claims	1-27	YES NO

1-27

2. Citations and explanations (Rule 70.7)

Industrial applicability (IA)

Cited documents: D1: US 6476521 B1 D2: US 6496757 B1

Claims

Claims

The invention relates to a method and a device for selecting and dimensioning measures in case of instability in an electrical power system. In the method, according to claim 1, the actual voltage/phase angle is determined, the power unbalance is determined, appropriate power balancing measures are determined, the extent of every measure is dimensioned and the measures are accomplished. There also is a corresponding device defined in claim 23. Claims 1 and 23 are quite vague; it is not stated how, or even that, the power balancing measures are determined from the voltage/phase angle and power unbalance. Moreover, in the expression "voltage/phase angle" it is not clear whether the "/" stands for "or", for "and" or both. Anyhow, document D1 discloses a system for selecting and dimensioning measures for avoiding a collapse in an electric power system (see col. 7, lines 14-36). Voltages, phase angles and powers are determined (see for example col. 23, lines 6-20) and appropriate measures are taken. The invention defined in claims 1 and 23 is not clearly distinguishable from the art disclosed in document D1.

The remaining claims define trivial applications of well-known electrical measuring practice and emergency actions in power systems.

Document D2 describes the general state of the art.

To summarize, claims 1 and 23 lack novelty and the remaining claims lack an inventive step. The invention is industrially applicable.